

ABSTRACT

A media storage device records a meta-data header with packets received by the media storage device. The meta-data headers include a cycle mark value and a cycle count value. The cycle mark value has a specific pattern which is then used to locate cycle boundaries within the recorded stream of data. The cycle count value specifies the value of the isochronous cycle number on which the packet was received. Preferably, the media storage device includes an embedded stream processor which is responsible for appropriately adding the meta-data header to the packets within the recorded stream of data. The embedded stream processor is also integral to the playback of recorded data, and is used to retrieve data from the storage media, strip the meta-data headers from retrieved data being played back and recover from any error conditions encountered during the playback of previously recorded data. The meta-data headers stored within the recorded stream of data are also utilized to recover from any error conditions and resynchronize the transmission of the data during playback.